

**O & M – Scope of Work
Philpott Project**

Technical Provisions

Section 1

General

TP-1.0 PURPOSE: To provide for the maintenance, repair, and operation of facilities, vehicles, and equipment on the Philpott Project.

TP-1.1 Table of Technical Provisions:

SECTION 1 TP-1. General

SECTION 2 TP-2 Management

SECTION 3 TP-3 Maintenance & Repair of Buildings,
Structures, Mechanical, Electrical, Plumbing, Water, & Disposal Systems

SECTION 4 TP-4 Grass Mowing

SECTION 5 TP-5 Cleaning, Custodial Services, and Refuse Removal

SECTION 6 TP-6 Maintenance of Signs, Barricades, Gates, Bumpers, Posts, Fencing, Traffic Counters, and Fire Extinguishers

SECTION 7 TP-7 Maintenance of Landscaped Areas

SECTION 8 TP-8 Cleaning & Maintaining Rip Rap and Beaches

SECTION 9 TP-9 Reserved

SECTION 10 TP-10 Maintenance & Repair of Unpaved and Paved Roads; Road Shoulders; Parking Areas; Drainage Structures; and Boat Ramps

SECTION 11 TP-11 Custodial Service-Powerhouse

SECTION 12 TP-12 Cleaning & Maintenance of Government

Vehicles, Equipment, Trailers, and Attachments

SECTION 13 TP-13 Recreation Facilities Repairs

SECTION 14 TP-14 Dead Tree, Limb, and Driftwood Removal

SECTION 15 TP-15 Swimming Beach Sampling

SECTION 16 TP-16 Pest Control

SECTION 17 TP-17 Aids to Navigation and Floating Dock
Maintenance

SECTION 18 TP-18 Trail Maintenance

TP-1.2 Intent: The intent of these specifications is to procure for the Government complete, efficient and proper operation, maintenance and repair of facilities at the Philpott Project. The work consists of furnishing labor, supervision, materials, supplies, fuel, lubricants and other items necessary to efficiently satisfy the intent of the contract.

TP-1.3 Site of Work: Philpott Project is located on the Smith River upstream from the town of Bassett in southwest Virginia. The lake impounds water in Henry, Patrick and Franklin Counties and is approximately 50 miles south of Roanoke, VA and 60 miles north of Greensboro, NC.

TP-1.4 Maps and Drawings: Site maps showing mowing and cleaning areas and general project layout may be reviewed at the Philpott Project Management Center.

TP-1.5 Applicable Documents and References: The following individual standards and codes, manuals, and other documents shall apply to performance:

- a. Underwriter's Laboratories, Inc.
 - National Electrical Code
 - National Warm Air and Air Conditioning Assn.
 - National Association of Fan Manufacturers
 - National Fire Protection Association
 - American Society of Heating, Air Conditioning,
and Refrigeration Institution
 - Sheet Metal Manufacturers
 - Air Moving and Conditioning Association
 - American Society of Heating, Refrigeration
and Air Conditioning Engineers
 - American Welding Society
 - American National Standards Institute
 - American Concrete Institute
 - Portland Cement Associates
 - Asphalt Institute
 - American Institute of Steel Construction
 - National Assn. of Architectural Metal
Manufacturers

National Plumbing Standards Code Illustrated
 Architectural Aluminum Manufacturers Assn.
 The aluminum Association
 American Society for Testing and Materials
 Flat Glass Marketing Association
 American Association of Nurserymen, Inc.
 Architectural Graphic Standards
 Consumer Product Safety Commission's
 Public Playground Safety Guideline, Vols. I & II
 Southern Building Code

b. Equipment Manufacturer's Repair and Operating
 Manuals

TP-1.6 Other Contracts: The Government may award contracts for additional or similar work. The contractor shall cooperate with such other contractors and Government employees, as directed by the Authorized Representative of the Contracting Officer (COR). The contractor shall not commit or permit any act of interference in the performance of other contractors or Government forces.

TP-1.7 The Contractor's Facilities: The Government will furnish the contractor the following buildings:

<u>Building Number</u>	<u>Size</u>	<u>Comments</u>
1	Approx. 14' x 36'	Office – water, electricity & toilet facilities
2	Approx. 24' x 100	Vehicle equip. shed with 9 stalls – electricity
3	Approx. 12' x 16'	Storage
4	Approx. 20' x 24'	Metal Warehouse – electricity
5	Approx. 20' x 36'	Shop - electricity
12	Approx. 40' x 60'	Quonset – water, electricity & toilet facilities
31	Approx. 10' x 12;	Open Tool Shed
63	Approx. 24' x 60'	Metal Warehouse – electricity

Utilities listed are provided by the Government. All structures except building no. 1 are enclosed by a chain link security fence with lockable gate. The contractor may modify these facilities to meet work requirements following prior approval by the COR.

List of "Property Made Available to the Contractor" is on pages C-39 and C-40.

The Government may furnish the contractor with vehicles, boats, heavy equipment, power tools, and tools, supplies and equipment that can be used by the contractor to off set the cost of this contract. All supplies, equipment, tools and supplies that the contractor needs to perform the work specified in this contract, if available, will be hand receipted, used and maintained by the contractor for the government in performance of work specified in this contract.

TP-1.8 Identification of Contractor Employees: Within 30 days of contract award, the

contractor shall provide his employees uniforms approved by the COR. Company identification shall be a patch on the breast pocket or the left shoulder. Uniforms shall also be provided to subcontractors working on the project full time. Vehicles and equipment shall be identified with company name or logo.

TP-1.9 Communication: The contractor shall furnish telephone facilities and sufficient phones to provide adequate telephone communications. The contractor will furnish a radio or a cellular phone to enable communication between the Corps and the contractor's superintendent. A method of communication between the contractor and his employees should be addressed in the contractor's proposal.

TP-1.10 Consolidation: The Philpott Project is continually undergoing renovation and consolidation of recreation areas, which could cause the temporary or permanent closing of some public use areas or the increase, decrease, or alteration of facilities. The contractor's work schedule shall be flexible in order to meet these changing requirements.

TP-1.11 Safeguarding Government Property: The contractor shall cooperate with Government personnel in safeguarding Government property. The contractor shall be responsible for reporting to the COR, any ranger on duty, and appropriate local law enforcement agencies all acts of vandalism, larceny, pilferage, or other damage. Reports shall be made within 24-hours after discovery. Notification may be by telephone or radio, with follow-up in writing.

TP-1.12 Pre-Work Conference: The contractor shall attend a pre-work conference at which the COR will establish the line of authority and Government procedures for contractual, administrative, and work matters. The schedule or required submittals and reports will also be discussed.

a. Contractor Items: The contractor shall submit, in completed form, the following items:

- (1) Certificate of Insurance
- (2) Letter of Authority for the Superintendent
- (3) Letter(s) Appointing Quality Control Personnel

TP-1.13 The contractor shall furnish a list of key personnel and separate plans of operation, along with the proposal, for the following.

- a. Quality Control Plan
- b. Accident Prevention/Hazardous Analysis Plan
- c. Sub-Contracting Plan
- d. Cost/Schedule Plan with Work Breakdown Structure
- e. Management Plan – Personnel Staffing, Operational Aspects (planning and organizing utilization of equipment and facilities), etc.
- f. Pest Control Plan

- g. Security Plan for key control.
- h. Oil Spill Plan
- i. Hazardous Material Handling/Storage/Disposal Plan

The above shall be in final draft format as part of the Management Proposal. The Government reserves the right through a coordinated effort with the successful offeror to assist in final revisions before approval of the plan(s) after contract award.

Technical Provisions

Section 2

Management

TP-2.0 Scope of Work: The contractor shall provide management services for tasks relating to the operation, maintenance, repair and work requirements set forth in this contract. Management service requirements in this contract regarding maintenance, repair, and operation, will fluctuate because of vandalism, weather, season, and recreational activity.

TP-2.1 Reference Documents:

a. ER 1130-2-550 – “Recreation Operations and Maintenance Policies”, dated 15 Nov 1996.

Compliance Documents:

- a. EM 385-1-1 – “Safety and Health Requirements Manual”, revised Sep 1996
- b. ER 700-1-1 – USACE “Supply Policies and Procedures”
- c. EP 1165-2-316 – “Rules and Regulations Governing Public Use of Corps of Engineers Water Resource Development Project”
- d. DR 385-1-1 – “Safety and Occupational Health Program Management
- e. Sign Standards Manual
- f. CFR Title 36 – Code of Federal Regulations
- g. ER 1130-2-540 – “Environmental Stewardship Operations and Maintenance Policies”

TP-2.2 Contractor Quality Control (CQC): The contractor shall develop, implement and maintain an effective CQC plan and program. No work shall be performed until the CQC plan is approved. The plan shall identify personnel and procedures to maintain acceptable productivity and quality levels. The COR will approve changes to the plan before implementation.

TP-2.2.1 CQC shall inspect work to ensure conformance to specifications and regulations. Inspection shall also include monitoring of subcontractor performance, inventory control, property accountability and procurement actions.

TP-2.2.2 Government inspectors will perform quality assurance inspections to assure that CQC is complete, but the presence or absence of a Government inspector shall not relieve the

contractor of responsibility for the proper execution of work in accordance with specifications.

TP-2.2.3 Compliance inspections shall be recorded on a form approved by the COR. Documentation to monitor quality control, to include records of deficiencies observed and corrective action(s) taken, shall be furnished to the Government.

TP-2.2.4 When recurrent deficiencies indicate that the quality control system is inadequate, corrective action shall be taken as directed by the COR.

TP-2.2.5 The CQC system shall be organized with a chief and supplemental personnel as necessary to perform quality control. The contractor's project superintendent may serve as the quality control chief.

TP-2.3 Supervision: The contractor shall give his personal superintendence to the work or have a competent superintendent on site who is knowledgeable of this contract's budgetary and personnel allocations. The superintendent shall possess authority to act on behalf of the contractor. Such authorization shall be submitted in writing to the COR.

TP-2.3.1 Minimum Personnel Qualifications: Service mechanics, technicians, and consultants shall have the education or experience to enable them to comprehensively understand the systems and components to be operated, maintained, and repaired under these specifications. Only trained and qualified employees shall be used in performance of this contract. Employees shall be subject to Government regulations during time spent on Government property. Subcontractors may be utilized to perform highly specialized or infrequent repair work. A file containing the qualifications (education and experience) and/or certification and/or licenses of each employee and subcontractor shall be maintained by the Contractor. These files shall be made available to the COR upon request and will be used as part of the basis for determining the qualifications of personnel.

TP-2.3.2 Removal of Contractor's Employees: The COR may direct the immediate removal of any contractor employee who is objectionable, incompetent, or endangers persons or property, or whose physical or mental condition is such that it would impair the employee's ability to perform his work. Notification for removal will be in writing. Notification may be made by telephone, and later confirmed in writing if time and circumstances warrant. The contract shall take immediate action to replace any dismissed employee. Personnel changes, regardless of cause, shall not reduce the contractor's obligation to perform work in accordance with contract specifications.

TP-2.3.3 Minimum Manpower Requirements: The contractor shall provide an adequate staff of qualified personnel for the operation and maintenance of Government-owned facilities and equipment according to contract specifications. A minimum number of personnel required to meet contract requirements and handle emergency situations must be available on call 24 hours a day, 7 days a week.

TP-2.3.4 Emergency Repairs and Services: The contractor shall furnish, and keep current,

a list of personnel to contract in the event emergency repairs or services become necessary. The contractor shall ensure contact can be made with these people either by telephone, or radio, within one hour. Appropriate response shall take place within two hours after notification. Contact will be made by the COR or person designated by him.

TP-2.3.5 Interruptions to System: Advance approval shall be obtained before beginning work that would interrupt the use of project facilities or systems, or disrupt building occupants or the visiting public.

TP-2.3.6 Inclement Weather and Holiday Work: The contractor shall maintain the schedule of services despite inclement weather. Exceptions will be approved by the COR when severe conditions make it impracticable or hazardous to perform the work. During the recreation season between May 1 through September 15, cleaning services shall be provided seven days a week including holidays.

TP-2.4 Determination of Work to be Performed: Managing and determining the work required to maintain and repair project facilities, buildings, structures, and systems in safe and efficient operating condition is the responsibility of the contractor. The COR may direct the contractor to perform repairs or maintenance when deficiencies are observed. the contractor shall respond promptly to repair such work items. Repetitive deficiencies will result in unsatisfactory performance in evaluation for award fees.

TP-2.4.1 Schedules: The contractor shall submit an annual plan for routine maintenance covered by these specifications. In addition, the contractor shall prepare weekly schedules detailing planned activities. Weekly schedules shall be submitted to the COR before commencement of activity.

TP-2.4.2 Incidental Work: Work incidental or related to contract work items, but not specifically identified or described in each section, shall be required of the contractor. This minor and non-recurring repair work shall be accomplished by the existing work force utilizing existing equipment.

TP-2.4.3 Improvement or Modification: An improvement or modification is defined as any change to the original design of a building or structure or installed system. Improvements and modifications shall not be initiated without approval of the COR. The contractor may be required to make restoration for unauthorized improvements or modifications. Improvements and modifications shall be governed by the procedures and limitations outlined below for major repairs.

TP-2.4.4 Major Repairs: Major repairs are those estimated to be more than \$2,000 and are beyond the scope of this contract. When the contractor determines that any major repairs are required, it should be promptly reported to the COR. Major repairs will normally be accomplished by another contract or purchase order after soliciting competitive offers, but may be added to this contract as an administrative convenience if this contractor submits the lowest offer. The Government reserves the right to award other contracts for other work, or perform

work with Government forces. The performance period of this contract and this contractor agrees to cooperate with such contractors and workers in the performance of this work. This paragraph does not apply to Section 13 of these specifications.

TP-2.5 Accident Prevention: The contractor shall submit a detailed Accident Prevention Plan, in accordance with Section 1, Para. 01.A.07, EM 385-1-1 dated 3 Sep1996. Interim approval of this plan shall be obtained before starting work. EM 385-1-1 is periodically updated and the contractor will comply with all updates.

TP-2.5.1 Monthly Exposure Report: The contractor shall submit accident exposure and experience incidental to this work, in accordance with EM 385-1-1.

TP-2.5.2 Public Safety: The contractor is responsible for safeguarding work sites in parks and public recreation areas. Appropriate signs, warning devices, and barriers shall be used.

TP-2.6 Major Purchases: Major repair parts and property purchases with an acquisition cost of more than \$500 per line item shall be submitted to the COR on separate lists for approval before purchase. After approval, these parts shall be procured locally, for immediate installation. The contractor will be required to pick up these parts if the vendor cannot deliver by the time required. In the event emergency repair parts are required and it is not possible to obtain those parts necessary to effect immediate repair in order to protect personnel or property. The cost of these repair parts will be directly reimbursable in the same manner as specified above. All items, regardless of cost, which will become accountable property items must be submitted to the COR for approval prior to purchase. Accountable property is defined as pilferable and non expendable personal property with a minimum value of \$300.00.

TP-2.7 Records and Cost Schedule Plan: The contractor shall have a Cost Schedule Plan with a work breakdown structure of anticipated cost estimates incurred for each TP for each month of the contract. The Plan shall be updated monthly. Daily written records shall be maintained for all maintenance, repair, and operation activities. The contractor shall keep monthly records of these costs by proper cost codes and provide these to COR. Cost data for each activity shall be maintained and is subject to Government audit. This cost data shall include labor (in hours and dollar value), supplies, materials, or parts costs for each separate scheduled work task. Costs shall be distributed to appropriate Government charge numbers.

TP-2.8 Man-hour Report: Contractor shall provide the number of man-hours worked to the Resource Management Center on the third of each month.

Technical Provisions

Section 3

Operation, Maintenance and Repair of Buildings, Structures, Mechanical, Electrical, Plumbing, Water Treatment & Distribution, & Disposal Systems

TP-3.0 Scope of Work: The complete maintenance and repair of all project buildings and structures, including mechanical, electrical, plumbing, water, and disposal systems.

TP-3.1 Buildings: Building maintenance and repair includes, but is not limited to, the Project Management Center, operations and maintenance buildings, gatehouses, waterborne toilets and other toilet types, wash houses, pump houses, storage buildings, shelters, and others. The maintenance and repair of project buildings shall be timely and proper and include all items, interior and exterior, that require maintenance or repair. Services necessary to keep these facilities in a neat, attractive and satisfactory condition include lubrication, re-fastening, refitting, replacing and repairing roofs, walls, ceilings, floors, ceramic tile, windows, sky lights, vents, doors, trim, paint, partitions, building hardware and fixtures. Minor modifications to reduce maintenance efforts are occasionally necessary. These will not exceed the previously referenced \$2,000 limitation. This will apply to all buildings and related systems. (See TP-2.4.4)

TP-3.2 Structures: Structure maintenance and repair includes, but is not limited to, gates, play areas, dump stations, playground equipment, bulletin boards, campsites, picnic sites, bulkheads, steps, walkways, pedestrian bridges, boat docks, fishing barge, curbs, tables, grills, fences, guardrail, trail markers, etc. Maintenance, repair or replacement of project structures is necessary to keep them in safe working condition. Services to maintain these facilities include lubrication, re-fastening, painting, refitting, adjusting, repairing and replacing boards, posts, hinges, bolts, framing, glass, shingles, hardware, rock screenings, gravel, etc.

TP-3.3 Mechanical, Electrical, Water Treatment & Distribution, and Disposal Systems: These items consist of heating, cooling ventilating, electrical, water, and disposal systems within various recreational and operational locations, and the Project Management Center. The Philpott Powerhouse is excluded from this contract except as designated for custodial maintenance purposes.

TP-3.3.1 Heating, Air Conditioning, and Ventilation Systems: Maintain equipment according to manufacturers' recommendations. Repair or replace parts or components as necessary.

TP-3.3.2 Electrical Systems: Maintenance includes replacement or repair of damaged, broken or malfunctioning electrical systems or components, broken wires, breakers, panel boxes, pump controls, photoelectric cells, exterior and interior lighting, heating elements and fixtures,

switches, fuses, outlets, bulbs, underground wiring, timers, burglar and fire alarm systems.

TP-3.3.3 Water Systems: All work under this section will be in accordance with the Rules for Safe Drinking Water of the Virginia Department of Health, Division of Water Programs. Also included is the repair or replacement of damaged, broken, or malfunctioning water mains, storage tanks, valves, vacuum breakers, outlets and faucets, interior building plumbing, irrigation systems, underground water lines, water meters, pressure reducing valves, pressure relief valves, fittings, pumps, fountains, and casings. The contractor will winterize systems to prevent damage to components and restore to operation after winter season. The contractor shall restore disturbed areas to their original conditions, including the establishment of grass, using approved cultivation procedures. Water systems entered for repairs shall be sterilized before reuse.

TP-3.3.4 Water System Sampling: The State of Virginia requires periodic sampling of wells. Take samples as specified by the appropriate State guidelines and deliver to an approved lab for testing as directed. Samples that fail shall be retaken per State guidelines. Results of tests shall be furnished to the COR. Chlorination of hand pump water systems are required periodically to reduce bacteria levels and meet State requirements. List of "Water Sample Schedule" is attached on page C-38.

TP-3.3.5 Disposal Systems: Repair or replace sewage lines, drain fields, valves, septic tanks, distribution boxes, lift pumps, pump controls, fixtures, and hardware. Clean and pump out septic tanks, distribution boxes, sewage lines, field lines, dump stations and holding tanks. Material removed shall be disposed of at an approved site outside the project limits. Permits, permission, and fees for disposal are the responsibility of the contractor.

TP-3.3.6 Playgrounds: Conduct inspections weekly during the active use season to detect and repair damages from vandalism or unsafe conditions. Remove any debris in the sand, or if no sand, in the immediate vicinity of the structure(s), rake the sand (if present) to maintain a uniform depth. Place additional sand as necessary. Perform preventive maintenance inspections once each month. Inspect play equipment from top to bottom for wear, structural integrity, and parts replacement. Make immediate follow up repairs of discrepancies revealed. Furnish copies of the findings and repairs, no matter how small, to the COR monthly.

TP-3.3.7 Records: The contractor shall provide as-built drawings of any changes occurring as a result of modification, maintenance, or repair to buildings, structures, facilities, or systems. These drawings shall be of the same quality as, and compatible with, original drawings or other updated drawings. Drawing changes are to be furnished within 30 days of completion of the repairs or modifications.

Technical Provisions

Section 4

Grass Mowing

TP-4.0 Scope of Work: Mow and trim grass in designated locations.

TP-4.1 Mowing: Mow grass as necessary, generally occurs from April through October, based on seasonal growth. Pick up litter before mowing. Grass in public use areas shall not exceed six inches in height. Areas that cannot be cut by machine shall be hand cut. Neatly and uniformly cut grass to a height of approximately three inches. Power mowers shall be operated at a safe distance from occupied picnic areas or campsites. Mowing shall not be permitted on Saturdays, Sundays, or holidays unless specifically approved by the COR. The list of areas herein, including designated trails, indicate where mowing is to be performed and approximate acres but cannot accurately define the exact boundaries of the work areas and the complexity of each area. A site inspection of each area is recommended. Mowing schedules shall be submitted for approval to the COR and may be modified to accommodate special circumstances resulting from rainfall, use fluctuation, holidays, etc.

TP-4.2 Grass Trimming and Edging: Neatly trim grass around light poles, head walls, guardrail, trees, shrubs, barrier posts, etc. Do not damage plants or structures while trimming. Additional vegetation and structures may be placed on the project during the contract period. Neatly and uniformly edge all sidewalks. Grass shall not be allowed to grow over paved road surfaces, sidewalk surfaces, in pavement or sidewalk cracks.

TP-4.3 Herbicide Application: The Contractor shall make one successful annual application of water soluble, Rodeo Herbicide, or approved equal, manufactured by Monsanto Co. Agriculture Products, St. Louis, Missouri. Application is to achieve defoliation and control of all vegetation in an area of approximately 1.5 acres in size located adjacent to Philpott Dam (Ref. Appendix f – Herbicide Treatment Area Map). Treatment shall be complete between 1 June and 30 July. Sprayer to be used shall be a large volume (cap.>100 gallons) industrial or field type approved for horticultural or agricultural use. Contractor must provide the Government with information about the equipment to be used, the type, make and method of spray calibration. Application method, rate, and precautionary measures shall be in accordance with manufacturer's recommendations as well as all federal, state, and local laws. The herbicide applicator shall be certified by the State of Virginia as a commercial grounds applicator and shall provide evidence of certification prior to administering herbicide and complete and submit Herbicide Applicator Record (Ref. Appendix G) immediately following completion of herbicide application. COR or his representative shall inspect treated area 15-30 days after completion of herbicide application to determine results achieved. A treatment determined to be unsuccessful 30 days after application shall be reserviced within 10 days as requested by the COR without additional cost to the Government. All mixing of chemicals and cleaning of all spray containers and equipment must occur off project property in a proper manner and at an approved location. All mixing of herbicide chemical must be coordinated with a government employee designated

by the COR or an authorized representative. Contractor may use mechanical mowing equipment, and/or manual labor to maintain picnic/campsites impact areas, paved roads & parking lots or choose to control plant growth using approved, water soluble Rodeo Herbicide, or approved equal, manufactured by Monsanto Co.

TP-4.4 Cleanup: Remove grass clippings from roadways, sidewalks, campsites, shelters, etc.

TP-4.5 Safety: Strictly enforce mowing safety in accordance with previously cited publications and manufacturers' recommendations. Accomplish mowing so as to have minimum impact on visitor use. Direct discharge from mowers away from all persons, vehicles, campsites, etc. Mowing equipment shall not be operated unless all screens and wire guards are 100% effective.

TP-4.6 Protection of Existing Vegetation, Structures, Equipment, Utilities, and Improvements: The contractor shall exercise caution to preserve and protect all structures, equipment, and vegetation on or adjacent to work site.

Technical Provisions

Section 5

Cleaning and Refuse Removal

TP-5.0 Scope of Work: The work shall include scheduling and providing cleaning services and refuse removal from facilities and public use areas. The contractor shall be flexible and capable of adjusting performance to satisfactorily clean, remove refuse, and maintain as necessary. The contractor shall provide the chemical port-a-john type facilities as needed at various sites on the project.

TP-5.1 Sanitary Facilities (Pit, Chemical (Port-A-Johns), Vaults, Waterborne Toilets, and Camper Wash Houses): Ensure that facilities are clean, free of objectionable odors, and contain an adequate supply of toilet tissue. The contractor shall provide the portable port-a-johns as needed which varies from as little as four (4) units to as many as (20) units during the year.

TP-5.1.1 Inspect, deodorize, and clean inside fixtures, partitions, floors, walls, ceilings, doors, and windows. Dry recently cleaned surfaces before use of the facility by the public. Remove all insects, insect nests, and webs, from louvers, screen doors, windows, inside and outside walls, ceilings, recesses, and eaves. Shower stalls, curtains and other interior areas subject to wet or damp conditions shall be kept free of mold, mildew, fungi and other biological formations.

TP-5.1.2 Furnish and distribute roll toilet tissue as necessary to make a continuous supply available to the public.

TP-5.1.3 Clean outside grounds and facilities including walks, paved areas, water fountains, and benches. Replace inoperable light bulbs in both interior and exterior fixtures. Unclog sinks, toilets, and water fountains. Remove drawing, writing, or graffiti with commercially available cleansers, or repaint if necessary. Water fountains, sinks and toilets shall be kept clean, free from foreign matter and in a sanitary condition.

Furnish and install chemicals in chemical toilets. Inspect chemical levels during routine cleaning operations and recharge as necessary. When use requires temporary facilities, as directed by the COR, transport chemical toilets and place in operation.

TP-5.2 Impact Sites (Picnic Sites, Campsites, Picnic Shelters): Clean tables, including seats, tops, and base slabs. Clean adjacent grounds and facilities such as parking areas, steps, and walks of litter, including pop tops and cigarette butts. The screening (gravel) shall be raked, leveled and all vegetation, living and dead, shall be removed. Screenings shall be replenished as required by the COR.

TP-5.3 Grills and Fire Rings: Remove ashes and debris from within and around fire rings and grills and dispose of properly. Clean grill cooking surfaces monthly between 1 April and 1 November. (See 5.12 for hot ash removal)

TP-5.4 Trash Cans: Remove the contents of trash cans, and trash debris on the ground within sight. Clean and disinfect cans and replace liners. Add, remove, or relocate trash cans as directed by the COR. Advise the COR promptly when any household or other outside garbage or debris is found at project areas.

TP-5.5 Removal of Litter From Public Use Area, (Ramps, Beaches, Playgrounds, Roads, Parking Lots, Etc.): Pick up trash, paper, bottles, dead fish, limbs, cans, animals carcasses, driftwood, etc, and dispose of properly. Perform this work also in hard-to-reach areas such as steep slopes and rip rap areas and to water edge. Keep beaches and water edge areas free of vegetation, debris, glass, pop tops, cigarette butts, trash, and litter.

TP-5.5.1 Small Litter Pickup: The contractor shall pick up all small litter that can be seen to the water line such as cigarette butts, pop tops, vegetative debris and other small litter from swimming beaches, playgrounds, impact sites (camping and picnic), picnic shelters, trails, around sanitary facilities, around walkways, overlooks, around fishing barge, around boat ramps and parking areas.

TP-5.6 Removal of Litter and Debris from Shoreline Areas: Pick up trash, paper, bottles, cans, animal carcasses, tires and any other material from shoreline areas and dispose of properly. Perform this work during low water periods which occur in the fall. Sites will be designated by the COR and require approximately 300 man-hours per year.

TP-5.7 Sanitary Dump Stations, Well Pumps and Drains: Clean concrete slabs, wood and metal surfaces, unclog drains, pump holding tanks, and disinfect as necessary.

TP-5.8 Fishing Barge & Boat Docks: Clean concrete slabs, wood decks, rails, walkways, benches, picnic tables, steps and sidewalks. Remove litter and refuse.

TP-5.9 Operations Area Buildings: Insure that buildings are kept clean, in proper working order, and free from objectionable odors. Clean inside and outside walls, floors, windows, carpets, fixtures, doors, and ceilings. Empty, clean, and disinfect trash cans to prevent odors. These buildings require weekly cleaning at a minimum.

TP-5.10 Picnic Shelters and Overlook Structure: Clean structures including tables, benches, eaves, floors, and grills. Clean outside grounds and facilities including walks, steps, water fountains, and benches.

TP-5.11 Trails: Remove litter and trash at least weekly. Clean benches and literature racks as necessary.

TP-5.12 Primitive Boat-in Sites: Monthly and after Memorial, July 4th and Labor Day weekends during the recreation season the contractor will thoroughly clean all tables including seats and tops as well as base slabs. This includes removing grease and other stains from tables and slabs. Natural debris such as leaves, limbs, twigs, etc. will be removed to an area approved

by the COR. Pit toilets will be cleaned weekly during the recreation season and monthly at other times as directed. All insects, insect nests and webs and other debris will be removed from the facilities. Wire brush the tops of all grills and remove charcoal and other burnt material from the grills and within twenty-five feet and dispose in an approved area. Hot ashes will be contained in an OSHA approved safety can to prevent spillage and fire. All trash, paper, bottles, cans, organic remains, and other debris will be picked up and removed to an authorized dumping area. These sites are located on various areas of the lake and are accessible only by boat. A boat suitable to perform this work will be provided on an "as needed" basis.

TP-5.13 Project Management Center: Provide cleaning services as necessary. This facility includes nearly 6000 square feet of floor space with carpet and tile floors which require cleaning and vacuuming and periodic stain removal. The numerous exhibits in the Visitors' Center portion of the building also require cleaning. This complex contains extensive plate glass doors and window. Perform cleaning services at a time and in such manner to minimize the impact on staff and visitors. The following is a guide for performing these services. Provide services as necessary to maintain an acceptable professional appearance.

TP-5.13.1 Frequent Requirements:

- a. Empty and clean trash receptacles.
- b. Dust furniture and machines.
- c. Sweep, mop or vacuum floors (includes entrance areas).
- d. Inspect area (inside and out) for insect nests and webs, remove same.
- e. Police around building.
- f. Clean and maintain rest rooms, replace tissue, soap and towels.

TP-5.13.2 Less Frequent Requirements:

- a. Wax tile floors and clean carpet.
- b. Clean windows and blinds.
- c. Clean light fixtures and replace inoperable bulbs.
- d. Water and fertilize live ornamental plants and remove dust from leaves.
- e. Defrost refrigerator.

TP-5.13.3 Special uses, requirements, or unusually heavy use could require additional cleaning at the direction of the COR.

TP-5.14 Water: Obtain water for cleaning from existing Government water supply systems or from other sources with prior approval of the COR. Transport water for cleaning to areas where water is not available. Do not use the same water and supplies used for cleaning restrooms to clean campsites and picnic sites.

TP-5.15 Dumping and Disposal Areas: The contractor has full responsibility for locating and obtaining state approved dumping and disposal areas. No dumping or disposal is allowed on Government property. Do not dump in any area without written approval of state or local health agencies.

TP-5.16 Schedule of Services: Submit for approval to the COR the “Schedule of Service” for cleaning services and refuse removal, indicating frequencies and days of the week, prior to commencing work or to changing schedule.

Technical Provision

Section 6

Maintenance of Signs, Barricades, Guardrail, Gates, Bumper Blocks, Posts, Fencing, Traffic Counters, and Fire Extinguishers

TP-6.0 Scope of Work: Furnish labor, materials, and supplies to inspect, maintain or replace signs, barricades, guardrail, gates, bumper blocks, posts, fencing, traffic counters, and fire extinguishers. Missing or damaged barricades, guardrail and signs, when safety of visiting public is in jeopardy, will receive top priority. New cable barricades will be installed in locations specified by the COR. Reference Corps of Engineers Sign Standards Manual, EP 310-1 6a and EP 310-1 6b.

TP-6.1 Signs: Install, replace or repair metal, wooden, traffic control, highway directional, informational, and entrance signs in accordance with the Corps' sign standard manual. Stains and paints are as specified by the Corp's sign manual. Fabricating temporary signs may be necessary by the contractor; however, all permanent sign fabrication will be by a sign supplier. There are some signs outside of parks to be maintained. The contractor will replace less than 10% of all signs a year. Any variation must be approved by the COR.

TP-6.2 Barricades: Maintain existing barricades including those on dead-end roads. Paint as necessary in conformance with existing specifications.

TP-6.3 Gates: Maintain project gates in a safe, operable condition. The metal gates require periodic adjustment to correct sagging. Replace broken welds, hinges, and paint as necessary. Gates may require replacement as a result of an accident, vandalism, or normal wear and tear. Many gates also have associated signs which require maintenance or replacement.

TP-6.4 Bumper Curbs: Replace or repair all damaged or missing bumper curbs. Repairs consist of resetting dislodged bumpers or installing new ones.

TP-6.5 Posts: A wooden numbered marker post is installed adjacent to each campsite. These posts require periodic inspection replacement and/or repainting.

TP-6.6 Wooden Fencing and Guardrail: Guardrail and wooden fencing exist primarily for safety purposes. Replace or repair posts and boards, and paint as necessary. A significant amount of wooden guardrail is deteriorated and may be removed rather than replaced. Repairs to wooden guardrail will be coordinated with the COR and a determination whether to repair or remove will be made at that time.

TP-6.7 Metal Fencing: Operational areas contain security fencing which require

maintenance to meet rigid security standards. No maintenance or repairs will be undertaken until appropriate security requirements are checked to insure compliance is met.

TP-6.8 Traffic Counters: Provide routine traffic counter maintenance on approximately 12 counters (including boxes). Maintenance included repair or replacement of hoses and electric wires, relocation of existing counters, installation of new batteries, etc in accordance with the manufacturer and the COR's instructions. Take monthly counter readings and furnish to the COR.

TP-6.9 Fire Extinguishers: Make monthly inspections of approximately 48 project fire extinguishers located in the operations/maintenance buildings, project management center and all park gatehouses and initial the tag on each extinguisher, if the unit is satisfactory for its intended purpose. This includes fire extinguishers carried in or on vehicles and equipment vessels. Check to ensure that extinguishers are properly charged and in good working order. Immediately replace extinguishers not ready for use. Make rechargeable or repairable units serviceable and restore to inventory. Furnish reports of this monthly inspection to the COR.

Technical Provisions

Section 7

Maintenance of Landscaped Areas

TP 7.0 Work to be Performed:

TP 7.1.1 Pruning: Plants around buildings, bulletin boards, project signs, gatehouses, entrance gates and other landscaped areas will be pruned as necessary. Spring flowering shrubs will be pruned when the flowers fade in the spring before new growth starts and as directed by COR. Basic tools required for pruning are hand shears, pruning saws and lopping shears. Plants will be thinned to encourage bushier growth and remove dead and broken branches. The typical growth habit of individual plants will be retained with as much height and spread as practical. Cuts will be made with sharp instruments and will be flush with the trunk or adjacent branch to ensure elimination of stubs. Cuts will be smooth and at an angle to permit water run off. Trimmings will be removed from the site.

TP 7.1.2 Replacing Dead Plants: Ornamental or planted trees, ornamental shrubs and ground covers planted around buildings or in public use areas that are either dead or in unacceptable condition will be replaced. The replacement plants will be the same size, quality and species as originally planted unless deviation is authorized by the COR. Planting of replacement plants will normally be done between 15 November and 15 March. Tall shrubs or trees will be securely anchored by guy wires.

TP 7.1.3 Weeding and Mulching Shrubs and Trees: Weeds and grass will be completely removed from around ornamental shrubs, trees and ground covers, including the removal of grass and weeds from planter boxes, slopes and plant beds. Weeds and grass will be removed from plant beds out to the original limits of the bed. Weeds and grass will be removed from around individual trees and shrubs in a circle for a minimum distance of 2 feet from the base of the plants. A pine needle or shredded bark mulch will be placed in plant beds and around individual trees and shrubs for a distance of 2 feet and to a compacted depth of 2 inches. Mulch will be kept out of crowns of shrubs and off buildings, sidewalks, light poles and other structures.

TP 7.1.4 Seeding: Bare and eroded areas, road shoulders, grassed areas or other areas where a satisfactory stand of grass does not exist will be seeded with K31 Fescue. Seeding will normally be done between 1 March to May and September through November. Seeded areas will be mulched with threshed straw such as wheat, oats, barley, rye, etc. Material that contains objectionable weed seeds or other material will not be used. Seed will be a type approved by the COR.

TP 7.1.5 Watering: Water will be applied as needed to newly seeded areas and to replacement plants. Replacement plants will be watered by filling the water holding basin constructed around each tree or shrub.

TP 7.1.6 Fertilizing: Once each year the contractor will apply lime and fertilizer to all shrubbery beds at rates approved by the COR. Annual cost of seed, lime and fertilizer is estimated to be \$1,000.

TP 7.2 Inspection: The contractor will frequently check the condition of items listed under TP 7.1 and will maintain areas in satisfactory condition.

TP 7.3 Location of the Work: The areas where work is to be performed are located within the boundary of the Philpott Project.

Technical Provisions

Section 8

Cleaning & Maintaining Rip Rap and Beaches

TP-8.0 Scope of Work: Inspect and provide all labor, management, equipment, supplies and materials necessary to ensure that beaches and rip rap are maintained in safe, attractive and uniform condition.

TP-8.1 Rip Rap: Maintain rip rap, both stockpiled and in place, in a uniformly graded manner free from debris, litter, trash and vegetation. Cut vegetative material or treat with appropriate herbicide. Chemical control is permitted only after meeting the requirements set forth for the Pest Control Plan.

TP-8.2 Beaches: Shape and grade all designated beach areas prior to the lake reaching its summer level and as frequently thereafter as necessary to prevent a build up or “ponding” of natural runoff. Carefully clean the beach areas during the grading and smoothing operation. Sand will be replenished as needed; however, the cost will not exceed \$2,000 per year (without COR approval). The beach areas shall be kept free from all riprap, stone, glass, litter, debris, cans, and all such undesirable material. Maintain the swim lines around beach swim areas in a safe and operable condition. Fluctuating lake levels could necessitate moving swim lines in or out to maintain proper depth of swimming area. The contractor shall frequently check the condition of beaches and buoy lines and make repairs necessary to ensure the area is safe for public use. Damaged swim lines shall be replaced as needed and the beaches shall be graded as needed to keep them in a safe, acceptable condition.

Technical Provisions

Section 9

TP 9.0 Reserved

Technical Provisions

Section 10

Maintenance and Repair of Unpaved and Paved Roads, Road Shoulders, Parking Areas, Drainage Structures, Boat Launching Ramps, and Snow Removal

TP-10.0 Scope of Work: Inspect and perform minor and major repairs to roads, parking areas, drainage structures, and boat launching ramps. Minor repairs are those that can be accomplished for less than \$2,000. Major repairs and road paving/resurfacing projects must be approved by the contracting officer representative (COR).

TP-10.1 Inspection: Inspect roads, parking areas, drainage structures, and launching ramps within the first 30 days of contract and monthly thereafter.

TP-10.2 Paved Roads and Parking Areas: Re-stripe all faded centerline, parking stripes, and symbols. Layout and new striping will require approximately 500 linear feet of work per year. Fill and repair sunken areas, cracks, and potholes. Clean road ditches as necessary to facilitate water runoff.

TP-10.3 Unpaved Roads: Grade roads to remove potholes, gullies, and to correct erosion problems. Fill extensive potholes and gullies with crusher run stone prior to blading. Clean road ditches as necessary to facilitate water runoff.

TP-10.4 Drainage Structures: Clean pipes and other drainage structures as necessary to allow water runoff and to prevent ponding. Maintain ditches to prevent erosion and movement of material. Keep concrete drainage ditches free of grass, weeds and sediment.

TP-10.5 Road Shoulders: Maintain road and parking area shoulders. Raise low shoulders to grade. Clip high areas and plant grass as described in TP-7. Use clippings to fill low areas. Perform this work as early in the growing season as practicable to provide for the earliest establishment of grass.

TP-10.6 Boat Launching Ramps: Keep ramps free of debris, logs, sand, silt, etc. During periods of flooding or pool drawdown, drought, etc., make inspections and repairs of launching ramps as necessary to insure ramps remain usable at all times.

TP-10.7 Snow Removal: The contractor shall begin removing snow at Philpott park within 5 hours after a significant (6 inches) snowfall. First priority shall be from the roadway surface beginning at the entrance sign at Philpott Park to the Dam/Powerhouse entrance gate.

This section of roadway includes approximately 3000' of paved roadway and a traffic island with curbing located adjacent to the powerhouse entrance area. After completing snow removal from this area the contractor shall proceed back to the Philpott Park entrance and remove snow from the entrance road (approximately 1500'), the overlook loop road (approximately 2000' of paved surface) which includes four traffic humps, the Resource Management Office parking area, the overlook parking area, the maintenance shop entrance roadway and the employee parking area (approximately 500' of paved road surface).

Technical Provision

Section 11

Custodial Services – Philpott Powerhouse and Dam

TP-11.0 Elevation 836.0 & 837.25 (Dwg. No. PA403 and GC210) consists of the following: Vestibule, lobby, corridors A & B, two toilets, first aid room (formerly men's toilet #2), supply room (formerly women's toilet #2), battery room, storage room, fan room, office, balcony, stairs A, janitor closet, parking compound and walk, north and south dam adits, and sluice gate access gallery.

Elevation 823 (Dwg. No. PA402) consists of the following: Water treatment room, storage room, stairs, kitchen, toilet and locker room, control room, generator room, secondary unit area, and work area.

Elevation 812 & 803.5 (Dwg. No. PA401) consists of the following: Secondary unit turbine area, walkway and stairs, and penstock access gallery.

TP-11.1 The following is a guide for cleaning these facilities. Provide these services as necessary to maintain an acceptable professional appearance.

A. Frequent Requirements:

1. Empty and clean trash receptacles.
2. Dust furniture office equipment, door prizes, ledgers and built in units.
3. Clean wall, glass partitions, mirrors, inside window, doors, door frames, bookcase fronts, etc., door mats, water fountain.
4. Remove refuse from sand urns and wipe clean.
5. Door mats will be cleaned.
6. Sweep, mop and vacuum floors and stairs.
7. Clean and maintain restrooms, replace tissues, soap and towels.
8. Clean and maintain kitchen, locker room and first aid room (Replace bed with clean linen after each use.)
9. Clean all outside stairs, landings, parking areas, sidewalks, and

TP-11.2 Less Frequent Requirements:

1. Wipe of vacuum high files and cabinets, control panels, door frames, and light fixtures.
2. Mop Cable Tunnel.

Semiannually

A. General cleaning.

1. Wax tile floors
2. Clean all walls
3. Clean ventilators and air diffusers.
4. Clean outside areas.
5. Damp mop top of generators.

Technical Provision

Section 12

Cleaning and Maintenance of Government Vehicles, Boats, Equipment, Mowers, Trailers and Attachments

TP-12.0 Scope of Work: Furnish labor equipment, supplies, and materials required to wash, service, and repair project vehicles, boats, heavy equipment, light equipment, attachments, trailers, and mowers. Accomplish all work by or under the supervision of qualified personnel. Perform preventive and routine maintenance at the contractor field office.

TP-12.1 Compliance Documents:

- a. ER 56-2-1- Administrative Vehicle Management
- b. EP 750-1-1- Procedural Pamphlet for Material Maintenance Policies
- c. ER 750-1-1- Material Maintenance Policies

TP-12.2 Preventive Maintenance: Inspect and perform maintenance services (change oil and oil filter, lubricate, etc.), every 5,000 miles. Perform vehicle tune-ups in accordance with manufacturer's recommendations. Inspect, and service equipment such as dozers, mowers, backhoes, loaders, etc., as required in the project equipment maintenance plan.

TP-12.3 Routine Maintenance: Routine maintenance includes all repairs not covered by previous maintenance requirements. Such repairs include (but are not limited to) tire-rotation, tire replacement and mounting, brake repair, engine overhaul or repair, transmission and drive train work, repair of air conditioning, hydraulic and electrical systems, repair or replacement of starters, batteries, belts, etc., and welding repairs. Repairs in excess of \$500 in parts and labor must be approved by the COR.

TP-12.4 Inventories: Maintain adequate stocks of commonly used repair parts and tires. The contractor's Inventory Control/Property Management System must ensure the accountability of all parts. The Government will perform inspections of the contractor's inventory system.

TP-12.5 Safeguarding Government Property: The contractor shall cooperate with Government personnel in safeguarding Government property. The contractor is responsible for reporting all acts of vandalism, larceny, pilferage or other damage to Government property to the COR and appropriate local law enforcement agencies. The contractor shall provide a full description of the security procedures and safeguards that will be established to protect equipment, materials, tools, and other resources from loss or damage.

TP-12.6 Cleaning and Waxing: Clean and wax Government vehicles periodically to keep them presentable and protect the finish. Clean the inside as well as the outside of vehicles. Some vehicles and boats, highly visible to the public, may require attention weekly. Schedule work to insure minimum impact on vehicle use.

TP-12.7 Records and Reporting: Maintain all records and make periodic reports as required for vehicles and equipment. The Corps will furnish forms for these purposes.

Technical Provisions

Section 13

Recreation Facility Repairs

TP-13.0 Work to be performed:

TP-13.1 Supervision: Supply supervision, operators, laborers, and small tools necessary for the repair of designated public use areas. This is in addition to repairs listed in TP3.

TP-13.2 Installation: Install lantern posts, vehicle pads, impact areas, fire rings, picnic tables, grills, timber, signs, electric panel boxes, drainage pipes, and repair or replace electrical systems and water lines by trenching, installing electrical wire and water pipe and covering trenches.

TP-13.3 Personnel: Accomplish all work by or under the supervision of qualified and competent personnel.

TP-13.4 Man hours: The work is expected to utilize approximately 4,000 man-hours of the contractor's labor force.

TP-13.5 Material: Materials to accomplish work in this section are to be furnished by the Contractor and following approval by COR are to be transported to the job site by the contractor.

TP-13.6 Location of the Work: Perform this work in recreation areas on the Philpott Project.

TP-13.7 Inspection: The contractor shall frequently check ongoing work and ensure its satisfactory performance in accordance with contract requirements.

Technical Provision

Section 14

Dead Tree, Limb and Driftwood Removal

TP-14.0 Work to be Performed: The contractor will provide equipment, labor, materials and supplies to remove dead trees and limbs from recreation areas, access roads and Government land where the trees or limbs threaten life, public safety, private or Government-owned structures or facilities. Hazardous trees along property lines adjacent to private homes or structures will be cut on a case by case basis when directed by the COR. The contractor will remove and dispose of the trees with a minimum of damage to private property. Trees and limbs that are removed will be cut into 24" lengths and stockpiled for camper use in camping areas. Stockpiles will be neat and well dispersed. Trees and limbs cut in day use areas will be removed to the nearest campground that is closed for the season or under gate attendant control. Driftwood will be removed from the area or piled and burned where practical in recreation areas and other designated problem areas such as coves, points, etc., around the lake. Driftwood that is suitable will be removed, cut and piled for use in nearby campgrounds when practical.

TP-14.1 Inspection: The contractor will frequently monitor access roads and recreation areas for dead trees and limbs and will remove them as necessary to ensure public safety. Driftwood and hazardous tree removal outside of recreation areas will be coordinated with the COR to determine where problems exist and removal is required. Driftwood in recreation areas will be removed as it accumulates.

TP-14.2 Location of the Work: The work will take place within the boundaries of the Philpott Project and along access roads leading to project recreation areas.

Technical Provisions

Section 15

Swimming Beach Sampling

TP-15.0 Work to be Performed: The contractor will provide labor, equipment, materials and supplies necessary to perform water sampling at Goose Point, Horseshoe Point, Bowens Creek and Salthouse Branch beach areas. This involves taking samples each month between 15 April and 30 September. Approximately 18 samples will be taken during this period on a schedule to be provided by the COR. Samples will be handled the same as those for potable water and if water quality problems are detected, additional sampling may be required. Laboratory results will be furnished to the COR within two (2) business days of the contractor's receipt of the lab results. Results can be faxed to the COR.

Technical Provisions

Section 16

Pest Control

TP-16.0 General: Contractor will institute a pest control program as described in the specifications. A general pest control plan will be developed by the contractor and will provide for eradication or control of plant and animal pests using appropriate chemical and physical means. The plan will be submitted with the bid proposal and will go into effect upon approval of the COR.

TP-16.1 The contractor will also provide an annual work plan at the beginning of each option year along with labor, supplies and equipment to carry out the plan. Employees applying pesticides must be certified in accordance with Virginia law for the application of such chemicals. The contractor will provide and insure that employees use recommended safety equipment and follow manufacturer's instructions in applying chemicals. Herbicides will be used with utmost care to avoid killing desirable vegetation.

TP-16.2 The plan will include, but is not limited to control of the following:

TP-16.2.1 Plant Pest: Poisonous plants, undesirable vegetation and other plants that may be designated by the COR. It is estimated that one (1) acre of kudzu, poison ivy and undesirable forest species will be treated with herbicides annually.

TP-16.2.2 Insect and Animal Pests: Roaches, mice, rats, stinging insects, spiders, ticks, and others that may be designated by the COR.

TP-16.3 Removal of Undesirable Animals: The contractor will capture and remove animals within the camping and day use areas that prove to be pests. Domestic animals will be captured alive by the use of traps and other approved methods. Animals will be taken to the nearest animal shelter or disposed of in a humane manner and in compliance with applicable local, state and federal laws. A reasonable effort will be made to notify the owner of the animal prior to disposal.

TP-16.4 Location of the Work: Work under this section will be over the entire Philpott Project.

TP-16.5 Reporting: Each time pesticides are applied, a written report containing the type, quantity, and location of pesticide applied will be made to the COR on a form provided by the government. An annual report summarizing pesticide use for the year and a proposed listing of all pesticides to be used during the next year, will be submitted in December.

Technical Provisions

Section 17

Aids to Navigation and Floating Dock Maintenance

TP-17.0 Work to be performed: The contractor will provide materials, supplies, labor, supervision, tools, cables, fittings, spare parts, signs, posts and anything else necessary to maintain the aids to navigation system at the Philpott Project. The contractor is also responsible for maintaining floating docks located at various launching ramps around the lake. This will require periodic adjustment of cables, inspection to assure the dock is safe for use by the public and removal of any debris that may affect proper operation of the dock.

TP-17.1 Dock inspection and maintenance: The contractor will frequently monitor the condition of courtesy docks and will realign, paint, repair or replace as necessary. Debris (floating or otherwise) will be kept free of the dock structure. The maintenance and repair or replacement will include, but is not limited to carpentry, painting, cleaning, rough framing, wooden trim, sheet metal, flotation material, decking, bracing, wooden or metal posts, bumpers, cleats, guardrails, steel framing, and other items that are necessary to maintain the dock.

TP-17.2 Navigation aid inspection and maintenance: The contractor is responsible for monthly inspections of the navigation aids to assure their proper location and alignment, and will replace, remove, relocate or reposition the aids as necessary for proper operation. All signs will be obtained by the contractor through his normal supply procedures. A map showing the locations of the navigation aids will be furnished to the contractor by the COR. A work boat sufficient to perform the work required under this section will be made available to the contractor as Government Furnished Property.

TP-17.3 Types of navigation aids: Navigation aids generally consist of signs mounted on either wood or steel poles and floating buoys. Approximate quantities of aids are listed below.

<u>Type Navigation Aid</u>	<u>Quantity</u>
Boats Keep Out	12
No Wake, No Ski, Etc.	28
Danger, Rock, Shoal, Etc.	12
Mile Markers	20
Assorted Others	14

It is estimated that 10% of the aids will need repair or replacement each year.

Inspection: The contractor will frequently check the condition and performance of items listed under this section and will ensure that work is performed satisfactorily. The contractor is responsible for the continuing maintenance of navigation aids and courtesy docks in a condition equal to or better than their condition at the time of award of the contract.

Technical Provisions

Section 18

Maintenance of Trails

TP-18.0 Work to be Performed: The contractor will provide labor, equipment, materials, supplies, and everything else necessary to maintain trails at the Philpott Project. Included is work such as replacing bark chips on the trail, repair or replacement of signs, maintenance of steps, footbridges, benches & fences, removal of dead or unsafe trees and any other work necessary to keep the trail in acceptable condition. Most areas of the trails are too narrow for access by vehicle, consequently materials must be carried by hand or wheelbarrow.

TP-18.1 Inspection: The contractor will frequently check the condition of trails on the project and will perform work necessary to control plant growth, prevent erosion or deterioration and keep trails safe for public use.

TP-18.2 Location of the Work: One trail system is located in the vicinity of the Project Management Center. Others are located at Jamison Mill Park, Salthouse Branch Park, and Goose Point Park.